

LOADERS - FACE

A. Original Equipment Manufacturer (OEM)

The following is a listing of OEMs for new underground loaders. Local dealers may be contacted for specific needs and details.

Manufacturer	Sound Damped Conveyor (Cost)
Joy Technologies	X

"X" indicates product availability.

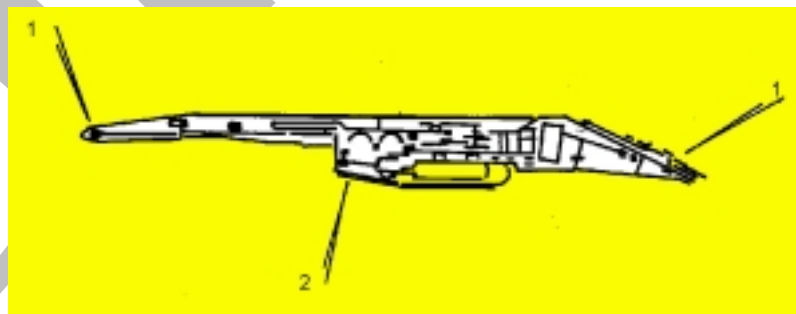
There is one noise control incorporated into new equipment of this type. For older underground loaders without noise controls, retrofit noise control is available.

B. Retrofit Noise Controls

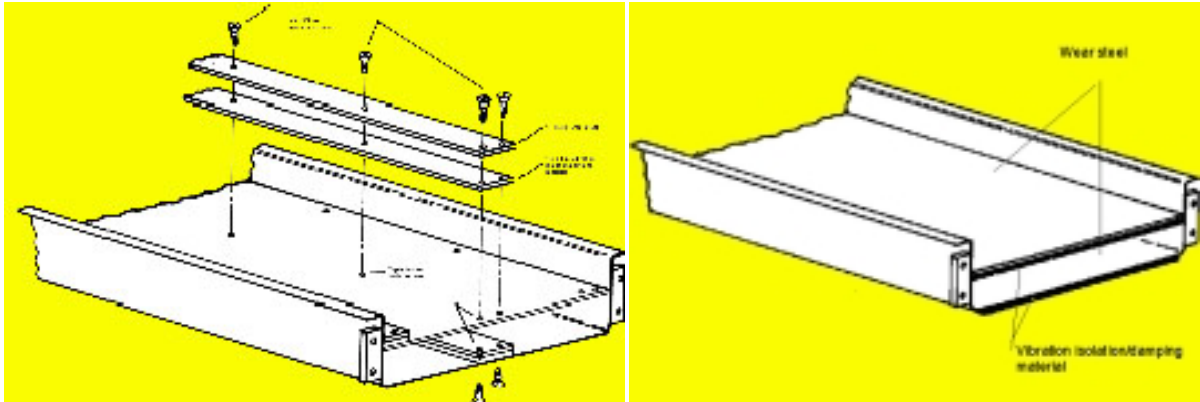
The effectiveness of noise controls depends on the quality of the materials and the installation.

If a retrofit kit is unavailable, the materials may be purchased in bulk (see Appendix C for listing of suppliers.)

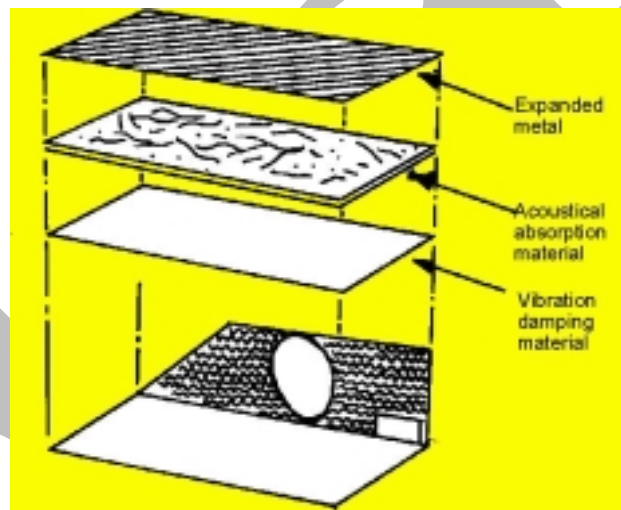
The following figure illustrates where the predominate noise is being generated on a loading machine and where you should consider installing acoustical materials.



1. Conveyor Pan Line and Chain Turn-Around Noise - Treat conveyor pan line to reduce vibration and isolate the chain and flights from the pan. This can be accomplished with individual steel strips or full coverage (see illustration.) The chain turn-around should provide a smooth transition for the chain and flights.



2. Hydraulic Pump Compartments - Treat pump compartments with both a barrier and absorptive-type acoustical materials to contain the pump noise within the enclosure. Vibration material may also be installed where the pumps are mounted onto the loader structure (see illustration.)



ESTIMATED COST - The cost of noise controlling the hydraulic pump compartments of an older underground loader ranges from \$1,000 to \$2,000.

C. Alternative Technology

Remote Controls - In certain situations, remote controls may be used as a noise control by increasing the distance between the operator and the machine.